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WSCF Analytical Chemistry  
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**FLUOR**

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**Memorandum**

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To: D. L. Klages H8-40 Date: M8141-SLF-06-199  
August 1, 2006

From: S. L. Fitzgerald, Manager *by Sullivan & Baird*  
WSCF Analytical Chemistry

cc: S. J. Trent (FH) A0-21  
T. F. Dale S3-30  
H. K. Meznarich S3-30  
P. D. Mix S3-30  
J. E. Trechter S3-30  
File/LB  
(Above w/attachments)

Subject: FINAL RESULTS FOR 200-UW-1 OPERABLE UNIT TRENCH – SAMPLE DELIVERY  
GROUP WSCF20060704 – SAF NUMBER R06-013

Reference: (1) 200-UW-1 Operable Unit Support Activities Sampling – Letter of Instruction, D&D-27876,  
Rev. 0, dated December 14, 2005

(2) HNF-SD-CD-QAPP-017, Rev. 7, Waste Sampling & Characterization Facility Quality  
Assurance Plan

This letter contains a narrative (Attachment 1) for sample delivery group WSCF20060704, the analytical results (Attachment 2), and the sample receipt information (Attachment 3).

SLF/cmj

Attachments 3

**RECEIVED**  
MAR 24 2008  
**EDMC**



**M8141-SLF-06-199**

**ATTACHMENT 1**

**NARRATIVE**

**Consisting of 4 pages  
Including cover page**

<b>Sample Delivery Group</b>	<b>WSCF20060704</b>
<b>Sample Matrix</b>	<b>SOLID</b>
<b>Sample Visual</b>	<b>N/A</b>
<b>SAF Number</b>	<b>R06-013</b>
<b>Data Deliverable</b>	<b>Summary Report</b>

### **Introduction**

Two (2) soil samples (B1J2T3-A and B1J373-A) from the 200-UW-1 Operable Unit Trench were received at the WSCF Laboratory on July 3, 2006. The samples were analyzed for the analytes indicated on the attached copy of the chain of custody (COC) form in accordance with the *200-UW-1 Operable Unit Letter of Instruction*, referenced in the cover letter.

All samples were taken using the Multi-Increment Sampling Program, which requires the entire sample submitted to be analyzed.

The narrative (Attachment 1) will address sample characteristics, analyses requested and general information in performance of the analytical methods. A Data Summary Report (Attachment 2) includes analytical results, a comment report detailing method abnormalities, tentatively identified peaks if applicable, method references, and Laboratory QC information. Copies of the chain of custody and sample receipt are included as Attachment 3.

### **Analytical Methodology for Requested Analyses**

Refer to *WSCF Method References Report*, pages 11, for a complete listing of approved analytical methods used.

### **Radiochemistry Comments**

There are no holding times associated with WSCF radiochemical methods.

**Uranium Isotopic** – A Blank, Laboratory Control Sample and Sample Duplicate were analyzed with this batch of less than 20 samples. See page 12 for QC details. Analytical Note:

- Duplicate Relative Percent Difference (RPD) results for U-234 and U-238 on sample B1J2T3-A are outside acceptance limits. This is attributed to in homogeneity of the soil matrix.

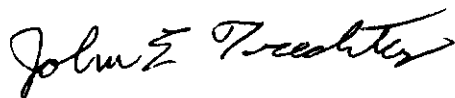
All other QC controls are within the established limits.

**Plutonium Isotopic** - A Blank, Laboratory Control Sample and Sample Duplicate were analyzed with this batch of less than 20 samples. See page 13 for QC details. All QC controls are within the established limits.

**Americium-241** – A Blank, Laboratory Control Sample and Sample Duplicate were analyzed with this batch of less than 20 samples. See page 14 for QC details. All QC controls are within the established limits.

<b>Radiochemical Tracer Percent Recovery</b>			
<b>Sample Number</b>	<b>Lab Sample ID</b>	<b>Isotope</b>	<b>Percent Recovery (Percent)</b>
<b><u>Americium-243</u></b>			
BLANK		Am-243	83.57%
LCS		Am-243	88.04%
B1J2T3-A	W060001851	Am-243	86.03%
B1J2T3-A (Dup)	W060001851	Am-243	86.24%
B1J373-A	W060001852	Am-243	81.36%
<b><u>Plutonium-242</u></b>			
BLANK		Pu-242	102.38%
LCS		Pu-242	98.87%
B1J2T3-A	W060001851	Pu-242	83.90%
B1J2T3-A (Dup)	W060001851	Pu-242	88.54%
B1J373-A	W060001852	Pu-242	77.49%
<b><u>Uranium-232</u></b>			
BLANK		U-232	75.85%
LCS		U-232	57.53%
B1J2T3-A	W060001851	U-232	84.16%
B1J2T3-A (Dup)	W060001851	U-232	49.68%
B1J373-A	W060001852	U-232	76.05%

This Summary Report is in compliance with the SOW, both technically and for completeness. Release of the data contained in this hard copy report has been authorized by the WSCF Laboratory Analytical Manager and Client Services, as verified by the following signature.



John E. Trechter  
WSCF Client Services

Abbreviations

Hg – mercury

IC – ion chromatography

ICP – inductively coupled plasma

ICP/AES – ICP/atomic emission spectroscopy

ICP/MS – ICP/mass spectrometry

Total U – total uranium

AT/TB – total alpha/total beta

AEA – Alpha Energy Analysis

WTPH-G – Total Hydrocarbons-Gasoline

Am – americium

Cm – curium

Pu – plutonium

Np – neptunium

GEA – gamma energy analysis

H3 – Tritium

Sr – Strontium 89, 90

WTPH-D – Total Hydrocarbons-Diesel

TSS – Total Suspended Solids

**M8141-SLF-06-199**

**ATTACHMENT 2**

**ANALYTICAL RESULTS**

**Consisting of 12 pages  
Including cover page**

# WSCF ANALYTICAL RESULTS REPORT

for

**PROJECT HANFORD MANAGEMENT COMPANY  
RICHLAND, WA 99354**

**Attention: DL Klages**

Analytical: Sullivan J Baird NW Baird 7/31/2006  
Client Services: John T. Trechter John Trechter

*All results are reported on an "as received" basis unless otherwise noted in the comment section.*

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Report#: 20060704  
Report Date: 31-jul-2006  
Report W005/ver. 1.2  
PROJECT HANFORD MANAGEMENT COMPANY

Page 1

# WSCF ANALYTICAL RESULTS REPORT

Attention: DL Klages

Group #: 20060704

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
<b>Radiochemistry</b>													
W060001851	B1J2T3-A	14596-10-2	Am-241 by AEA	SOLID	LA-508-471	U	0.0120	pCi/g	1.00	0.075	07/27/06	04/11/06	07/03/06
W060001851	B1J2T3-A	E,T,C	Am-241 by AEA Total Cntg Error	SOLID	LA-508-471		350	%	1.00	0.0	07/27/06	04/11/06	07/03/06
W060001851	B1J2T3-A	13981-16-3	Pu-238 by AEA	SOLID	LA-508-471	U	0.0180	pCi/g	1.00	0.083	07/27/06	04/11/06	07/03/06
W060001851	B1J2T3-A	E,T,C	Pu-238 by AEA Total Cntg Error	SOLID	LA-508-471		270	%	1.00	0.0	07/27/06	04/11/06	07/03/06
W060001851	B1J2T3-A	PU-239/240	Pu-239/240 by AEA	SOLID	LA-508-471	U	9.10e-03	pCi/g	1.00	0.024	07/27/06	04/11/06	07/03/06
W060001851	B1J2T3-A	E,T,C	Pu-239/240 AEA Total Cntg Err	SOLID	LA-508-471		160	%	1.00	0.0	07/27/06	04/11/06	07/03/06
W060001851	B1J2T3-A	13966-29-5	U-234 by AEA	SOLID	LA-508-471		0.400	pCi/g	1.00	4.9e-03	07/20/06	04/11/06	07/03/06
W060001851	B1J2T3-A	E,T,C	U-233/234 AEA Total Cntg Error	SOLID	LA-508-471		26.0	%	1.00	0.0	07/20/06	04/11/06	07/03/06
W060001851	B1J2T3-A	15117-96-1	U-235 by AEA	SOLID	LA-508-471		0.0470	pCi/g	1.00	1.6e-03	07/20/06	04/11/06	07/03/06
W060001851	B1J2T3-A	E,T,C	U-235 by AEA Total Cntg Error	SOLID	LA-508-471		34.0	%	1.00	0.0	07/20/06	04/11/06	07/03/06
W060001851	B1J2T3-A	24678-82-8	U-238 by AEA	SOLID	LA-508-471		0.380	pCi/g	1.00	1.4e-03	07/20/06	04/11/06	07/03/06
W060001851	B1J2T3-A	E,T,C	U-238 by AEA Total Cntg Error	SOLID	LA-508-471		27.0	%	1.00	0.10	07/20/06	04/11/06	07/03/06
W060001852	B1J373-A	14596-10-2	Am-241 by AEA	SOLID	LA-508-471	U	2.80e-03	pCi/g	1.00	2.9e-03	07/20/06	04/11/06	07/03/06
W060001852	B1J373-A	E,T,C	Am-241 by AEA Total Cntg Error	SOLID	LA-508-471		110	%	1.00	0.0	07/20/06	04/11/06	07/03/06
W060001852	B1J373-A	13981-16-3	Pu-238 by AEA	SOLID	LA-508-471	U	-4.40e-04	pCi/g	1.00	3.3e-03	07/20/06	04/11/06	07/03/06
W060001852	B1J373-A	E,T,C	Pu-238 by AEA Total Cntg Error	SOLID	LA-508-471		200	%	1.00	0.0	07/20/06	04/11/06	07/03/06
W060001852	B1J373-A	PU-239/240	Pu-239/240 by AEA	SOLID	LA-508-471		1.30e-03	pCi/g	1.00	1.2e-03	07/20/06	04/11/06	07/03/06
W060001852	B1J373-A	E,T,C	Pu-239/240 AEA Total Cntg Err	SOLID	LA-508-471		120	%	1.00	0.0	07/20/06	04/11/06	07/03/06
W060001852	B1J373-A	13966-29-5	U-234 by AEA	SOLID	LA-508-471		0.0230	pCi/g	1.00	4.6e-03	07/20/06	04/11/06	07/03/06
W060001852	B1J373-A	E,T,C	U-233/234 AEA Total Cntg Error	SOLID	LA-508-471		40.0	%	1.00	0.0	07/20/06	04/11/06	07/03/06
W060001852	B1J373-A	15117-96-1	U-235 by AEA	SOLID	LA-508-471	U	2.70e-03	pCi/g	1.00	4.0e-03	07/20/06	04/11/06	07/03/06
W060001852	B1J373-A	E,T,C	U-235 by AEA Total Cntg Error	SOLID	LA-508-471		110	%	1.00	0.0	07/20/06	04/11/06	07/03/06
W060001852	B1J373-A	24678-82-8	U-238 by AEA	SOLID	LA-508-471		0.0200	pCi/g	1.00	1.4e-03	07/20/06	04/11/06	07/03/06
W060001852	B1J373-A	E,T,C	U-238 by AEA Total Cntg Error	SOLID	LA-508-471		41.0	%	1.00	0.10	07/20/06	04/11/06	07/03/06

MDL = Minimum Detection Limit

U - Analyzed for but not detected above limiting criteria.

RQ = Result Qualifier

DF = Dilution Factor

\* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols

Report W005/ver. 1.2

PROJECT HANFORD MANAGEMENT COMPANY



# WSCF

## ANALYTICAL COMMENT REPORT

Attention: DL Klages

Group #: 20060704

Sample #	Client ID	Lab Area	Test	Comment
		VALGROUP		W060001851-1852/U234 duplicate is flagged for poor RPD. W060001851/U238 duplicate is flagged for poor RPD. Both flags are due to the sample not being homogeneous. lmh

Lab Areas: VALGROUP - Group Validation  
LOGSAMP - Login for Sample

VALTEST - Test Validation  
LOGTEST - Login for Tests

TESTDATA - Test Data Entry

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**WSCF**  
**TENTATIVELY IDENTIFIED PEAK REPORT**

**Attention:**  
**Project Number**

**Group #:** 20060704

Sample #	Client ID	Test Name	Peak Name	CAS#	RT	RQ	Result	Units
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RQ=Result Qualifier

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W\_005E v 1 Report#: 20060704

Report Date: 31-jul-2006

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# WSCF

## METHOD REFERENCES REPORT

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The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory or industry methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though the WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

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**LA-508-471**

**LA-508-471: ALPHA ENERGY ANALYZER DATA ACQUISITION AND SYSTEM CHECKOUT USING ALP  
HEIS PUIISO\_IE\_PRECIP\_AEA**Plutonium by Alpha Energy Analysis

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Note: A complete list of WSCF analytical procedures and referenced regulatory or industry methods is available online at  
\\ap006\aspdocs\WSCF\Sample Mgmt\ProcedureMethodCrossReference.pdf. This document includes on-line  
links to full-text versions of the procedures and methods, where available.

Report Date: 31-jul-2006

Report #: 20060704

Report W\_005M/1

Page 1

# WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: 20060704  
 Matrix: SOLID  
 Test: Uranium Isotopics by AEA

SAF Number: R06-013  
 Sample Date: 04/11/06  
 Receive Date: 07/03/06

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W060001851 BATCH QC ASSOCIATED WITH SAMPLE									
DUP	U-234 by AEA	13966-29-5	6.0e-01	40.000	RPD	07/20/06	0.000	20.000	•
DUP	U-235 by AEA	15117-96-1	5.5e-02	15.686	RPD	07/20/06	0.000	20.000	
DUP	U-238 by AEA	24678-82-8	5.5e-01	36.559	RPD	07/20/06	0.000	20.000	•
Lab ID: W060001852 BATCH QC ASSOCIATED WITH SAMPLE									
DUP	U-234 by AEA	13966-29-5	1.5e-02	42.105	RPD	07/20/06	0.000	20.000	•
DUP	U-235 by AEA	15117-96-1	U1.0e-03	n/a	RPD	07/20/06	0.000	20.000	
DUP	U-238 by AEA	24678-82-8	2.0e-02	0.000	RPD	07/20/06	0.000	20.000	
BATCH QC									
BLANK	U-234 by AEA	13966-29-5	3.3e-03	0.003	pCi/g	07/20/06	-10.000	1000.000	
BLANK	U-235 by AEA	15117-96-1	3.6e-03	0.004	pCi/g	07/20/06	-10.000	1000.000	
BLANK	U-238 by AEA	24678-82-8	U5.6e-04	n/a	pCi/g	07/20/06	-10.000	1000.000	
LCS	U-238 by AEA	24678-82-8	7.9e+01	104.194	% Recov	07/20/06	75.000	125.000	

# WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: 20060704  
Matrix: SOLID  
Test: Plutonium Isotopics by AEA

SAF Number: R06-013  
Sample Date:  
Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
BATCH QC									
BLANK	Pu-238 by AEA	13981-16-3	U-5.0e-4	n/a	pCi/g	07/20/06	-10.000	1000.000	
BLANK	Pu-239/240 by AEA	PU-239/240	2.0e-03	0.002	pCi/g	07/20/06	-10.000	1000.000	
LCS	Pu-239/240 by AEA	PU-239/240	2.6e+01	101.207	% Recov	07/21/06	75.000	125.000	

# WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: 20060704  
Matrix: SOLID  
Test: Americium by AEA

SAF Number: R06-013  
Sample Date:  
Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
BATCH QC									
BLANK	Am-241 by AEA	14596-10-2	3.0e-03	0.003	pCi/g	07/20/06	-10.000	1000.000	
LCS	Am-241 by AEA	14596-10-2	2.6e+01	108.108	% Recov	07/20/06	75.000	125.000	

# WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: 20060704  
Matrix: SOLID  
Test: Plutonium Isotopics by AEA

SAF Number: R06-013  
Sample Date: 04/11/06  
Receive Date: 07/03/06

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W060001851 BATCH QC ASSOCIATED WITH SAMPLE									
DUP	Pu-238 by AEA	13981-16-3	U4.7e-02	n/a	RPD	07/27/06	0.000	20.000	
DUP	Pu-239/240 by AEA	PU-239/240	U4.7e-03	n/a	RPD	07/27/06	0.000	20.000	
BATCH QC									
BLANK	Pu-238 by AEA	13981-16-3	U-2.9e-02	n/a	pCi/g	07/27/06	-10.000	1000.000	
BLANK	Pu-239/240 by AEA	PU-239/240	1.2e-02	0.012	pCi/g	07/27/06	-10.000	1000.000	
LCS	Pu-239/240 by AEA	PU-239/240	2.6e+01	101.207	% Recov	07/27/06	75.000	125.000	

# WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: 20060704  
Matrix: SOLID  
Test: Americium by AEA

SAF Number: R06-013  
Sample Date: 04/11/06  
Receive Date: 07/03/06

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
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Lab ID: W060001851  
BATCH QC ASSOCIATED WITH SAMPLE

DUP	Am-241 by AEA	14596-10-2	U2.3e-02	n/a	RPD	07/27/06	0.000	20.000	
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## BATCH QC

BLANK	Am-241 by AEA	14596-10-2	U3.1e-02	n/a	pCi/g	07/27/06	-10.000	1000.000	
LCS	Am-241 by AEA	14596-10-2	2.4e+01	108.108	% Recov	07/27/06	75.000	125.000	



## W13q Worklist/Batch/QC Report for Group# 20060704

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
29109	1	29476	33397	BLANK		Uranium Isotopics by AEA
29109	2	29476	33397	LCS		Uranium Isotopics by AEA
29109	3	29476	33397	DUP	W060001851	Uranium Isotopics by AEA
29109	4	29476	33397	SAMPLE	W060001851	Uranium Isotopics by AEA
29109	5	29476	33397	DUP	W060001852	Uranium Isotopics by AEA
29109	6	29476	33397	SAMPLE	W060001852	Uranium Isotopics by AEA
29111	1	29478	33398	BLANK		Plutonium Isotopics by AEA
29111	2	29478	33398	LCS		Plutonium Isotopics by AEA
29111	5	29478	33398	SAMPLE	W060001852	Plutonium Isotopics by AEA
29112	1	29479	33399	BLANK		Americium by AEA
29112	2	29479	33399	LCS		Americium by AEA
29112	5	29479	33399	SAMPLE	W060001852	Americium by AEA
29200	1	29567	33472	BLANK		Plutonium Isotopics by AEA
29200	2	29567	33472	LCS		Plutonium Isotopics by AEA
29200	3	29567	33472	DUP	W060001851	Plutonium Isotopics by AEA
29200	4	29567	33472	SAMPLE	W060001851	Plutonium Isotopics by AEA
29202	1	29568	33473	BLANK		Americium by AEA
29202	2	29568	33473	LCS		Americium by AEA
29202	3	29568	33473	DUP	W060001851	Americium by AEA
29202	4	29568	33473	SAMPLE	W060001851	Americium by AEA

M8141-SLF-06-199

ATTACHMENT 3

**SAMPLE RECEIPT INFORMATION**

Consisting of 3 pages  
Including cover page

Waste Sampling and Characterization Facility  
P.O. BOX 1970 S3-30, Richland, WA 99352  
PHONE: (509) 373-7004/FAX: (509) 373-7134

File

07/18/06

406

ACKNOWLEDGMENT OF SAMPLES RECEIVED

PROJECT HANFORD MANAGEMENT COMPANY

Customer Code: PHMC-MISC

RICHLAND, WA 99354

PO#: 121600/ES20

Attn: DL Klages

Group#: 20060704

The following samples were received from you on 07/03/06. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Waste Sampling and Characterization Facility.

ample#	Sample Id	Tests Scheduled	Matrix	Sample Date
060001851	B1J2T3-A	@AEA-30 @AEA-31 @AEA-32	KLAGES Solid, or handle as if solid	04/11/06
060001852	B1J373-A	@AEA-30 @AEA-31 @AEA-32	KLAGES Solid, or handle as if solid	04/11/06

Test Acronym Description

Test Acronym	Description
@AEA-30	Plutonium Isotopics by AEA
@AEA-31	Americium by AEA
@AEA-32	Uranium Isotopics by AEA

COLLECTOR HOGAN, JG	COMPANY CONTACT KLAGES, DL	TELEPHONE NO. 373-6312	PROJECT COORDINATOR TRECHTER, JE	PRICE CODE 8C	DATA TURNAROUND 15 Days / 15 Days
SAMPLING LOCATION U-8 Trench	PROJECT DESIGNATION 200-UW-1 Operable Unit, Soil from Trench between 216-U-8 and 216-U-12	SAF NO. R06-013	AIR QUALITY <input type="checkbox"/>		
ICE CHEST NO.	FIELD LOGBOOK NO. DTS-SAWS-H99	COA 121600ES20	METHOD OF SHIPMENT GOVERNMENT VEHICLE		
SHIPPED TO Waste Sampling & Characterization	OFFSITE PROPERTY NO. N/A	BILL OF LADING/AIR BILL NO. N/A			

## MATRIX\*

OL = OTHER LIQUID  
OS = OTHER SOLID  
S = SOIL  
W = WATER

## SPECIAL HANDLING AND/OR STORAGE

20060704

## POSSIBLE SAMPLE HAZARDS/ REMARKS

SAMPLE NO.	LAB ID	MATRIX*	SAMPLE DATE	SAMPLE TIME	NO./TYPE CONTAINER(S)	ANALYSIS	PRESERVATION
B1J2T3-A	W060001851	S	4-11-06	1230	3X60mL G/P	Isotopic Plutonium {Pu-238, Pu-239/240} Isotopic Uranium {U-233/234, U-235, U-238} Americium-241 {Am-241}	None
B1J373-A	W060001852	S	↓	1140	3X60mL G/P	Isotopic Plutonium {Pu-238, Pu-239/240} Isotopic Uranium {U-233/234, U-235, U-238} Americium-241 {Am-241}	None

## CHAIN OF POSSESSION

## SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM J. G. HOGAN	DATE/TIME 7-306-0215	RECEIVED BY/STORED IN T. K. KAPLAN	DATE/TIME 7-306-0215
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
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## SPECIAL INSTRUCTIONS

Reporting format the same as GPP, including QC. All samples have been taken using the multiple-increment sampling program. This requires the entire sample provided in each bottle to be used in analysis.

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LABORATORY  
SECTION  
FINAL SAMPLE  
DISPOSITION

RECEIVED BY

TITLE

DATE/TIME

DISPOSAL METHOD

DISPOSED BY

DATE/TIME